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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/712,214	11/13/2003	Susan E. Bach	970520A	8470	
	590 03/27/200 IONG FLAHERTY &	·	EXAM	INER	
250 PARK AVE		PHU, PHUONG M			
SUITE 825 NEW YORK, N	Y 10177-0899		ART UNIT PAPER NUMBER		
			2611		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MON	THS	03/27/2007	PAP	PER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	•	Application No.	Applicant(s)	,	
		10/712,214	BACH, SUSAN E.	BACH, SUSAN E.	
	Office Action Summary	Examiner	Art Unit		
		Phuong Phu	2611		
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence addi	'ess	
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. D period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ed patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).		
Status	•				
1)⊠ 2a)□ 3)□	Since this application is in condition for allowa	s action is non-final. ince except for formal mat		nerits is	
	closed in accordance with the practice under t	Ex parte Quayle, 1935 C.E	). 11, 453 O.G. 213.		
Dispositi	ion of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) 1-3,12 and 14-16 is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed.  Claim(s) 1-3 and 12 is/are rejected.  Claim(s) 14-16 is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.	· .		
Applicati	on Papers	•	•		
	The specification is objected to by the Examine	2r	•		
•	The drawing(s) filed on is/are: a) ☐ acc	•	by the Examiner.		
•	Applicant may not request that any objection to the		1		
	Replacement drawing sheet(s) including the correct	tion is required if the drawing	(s) is objected to. See 37 CFR	1.121(d).	
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attache	d Office Action or form PTO	-152.	
Priority ι	ınder 35 U.S.C. § 119				
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	ts have been received. ts have been received in A rity documents have been u (PCT Rule 17.2(a))	Application No received in this National St	age	
Attachmen	t(s) e of References Cited (PTO-892)	. AV [ ]	Summon (DTO 442)		
	e of References Cited (P10-892) e of Draftsperson's Patent Drawing Review (PT0-948)		Summary (PTO-413) s)/Mail Date		
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5)  Notice of I 6)  Other:	nformal Patent Application		
		6)		•	

Application/Control Number: 10/712,214

Art Unit: 2611

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1, lines 5-7 recites the limitation "a tap weight update calculation unit coupled to the equalizer and adapted to determine *constant* and predetermined tap weight updates for use in adjusting the tap weights during operation of the equalizer". This limitation is not disclosed in the disclosure of the instant application. As illustrations shown in figures 2 and 3, the "tap weight update calculation unit" is adapted to determine adaptive "tap weight updates", namely, the "tap weight updates" being non-constant "tap weight updates". The limitation is suggested to be changed to --a tap weight update calculation unit coupled to the equalizer and adapted to determine *adaptive* tap weight updates for use in adjusting the tap weights during operation of the equalizer--.

Claims, depended on claim 1, therefore, also rejected.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-3 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 5 recites the limitation "a tap weight update calculation unit coupled to the equalizer". It is unclear whether the input of the "tap weight update calculation unit" is coupled to the input or output of the "equalizer" or whether the output of the "tap weight update calculation unit" is coupled to the input or output of the "equalizer". The limitation is suggested to be changed to --a tap weight update calculation unit *having an input coupled to the output of* the equalizer--.

Similarly, claim 3, lines 1-3 recites the limitation "a demodulator *coupled* to the equalizer". The limitation is suggested to be changed to --a demodulator *having an input coupled to the output of* the equalizer--.

Similarly, claim 12, line 5 recites the limitation "a demodulator *coupled* to the equalizer". The limitation is suggested to be changed to --a demodulator *having an input coupled to the output of* the equalizer--.

Claims, depended on claim 1, are therefore also rejected.

### Allowable Subject Matter

- 5. Claims 14-16 are allowed.
- 6. Claim 12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

### Conclusion

7. References 4575857, 4695969, 5130799, 5648987, 4811360 and 4803438 are cited because they are pertinent to the claimed method and associated apparatus.9

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner Art Unit 2611

Phumphis

PHUONG PHU PRIMARY EXAMINER

Phuong Phu 03/20/07